Installation Guide - Stage 3

Oracle Financial Services:

Anti-Money Laundering | Fraud | Trading Compliance | Broker Compliance | Energy and Commodity Trading Compliance | Enterprise Case Management | Know Your Customer | FATCA Management

Release 6.2.1
September 2013

ORACLE

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Oracle Financial Services

Anti-Money Laundering | Fraud | Trading Compliance | Broker Compliance | Energy and Commodity Trading Compliance | Enterprise Case Management | Know Your Customer

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About This Guide

This guide provides comprehensive instructions for installing and configuring the Oracle Financial Services Financial Crime and Compliance Management (OFSFCCM) Release 6.2.1 product that includes Enterprise Case Management (OFSECM) and Oracle Financial Services Know Your Customer (OFSKYC).

This chapter focuses on the following topics:

- Who Should Use this Guide
- How this Guide is Organized
- Where to Find More Information
- Conventions Used in this Guide

Introduction

The Oracle Financial Services Financial Crime and Compliance Management product installation happens in three stages:

- **Stage 1 (OFSBDF) Installation** – This stage creates four Atomic schemas namely, Alert Management (AM), Case Management (CM), Know Your Customer (KYC), and Financial Services Data Framework (FSDF) schema. The Alert and Case Management data models are created during the Stage 1 installation while the KYC and FSDF schema data models are created during Stage 3 installation.
- **Stage 2 (OFSAAI) Installation** – For this installation, we can either use the user created during Stage1 installation (config_user) or any other manually created user. In case you are using a manually created user, then Stage1 and Stage2 installations can be done in parallel. There is no dependency for Stage 1 and Stage 2 except that both the installations must use the same database instance.
- **Stage 3 (OFSFCCM) Installation** – This guide talks about OFSFCCM product installation which requires Stage 1 and Stage 2 installations to be completed successfully.

Who Should Use this Guide

The *Installation Guide - Stage 3* is designed for use by the OFSFCCM Installers and OFSFCCM Administrators. Their roles and responsibilities include the following:

- **OFSFCCM Installer**: This user installs and configures the OFSFCCM product at the deployment site.
- **OFSFCCM Administrator**: This user performs OFSFCCM related administrative activities, maintains user accounts, and performs mapping of User Groups (internally mapped with roles) to users.

How this Guide is Organized

The*Installation Guide - Stage 3* includes the following chapters:

- Chapter 1, *Preparing to Install*, details the activities that occur prior to the installation of OFSFCCM and identifies all the third-party software's necessary to run the OFSFCCM solution.
- Chapter 2, *Installation Activities*, provides step-by-step installation activities for installing the OFSFCCM solution.
- Chapter 3, *Post Installation*, details the steps that must be followed after successful installation of OFSFCCM solution.
- Chapter 4, *Uninstalling OFSFCCM*, details the steps that must be followed for un-installation of OFSFCCM solution.
- Chapter 5, *Deploying Analytic Reports and Threshold Analyzer*, explains how to integrate Analytic Reports and Threshold Analyzer with OFSFCCM solution.
- Appendix A, *Installation Order for Multi-Tier Installation of OFSFCCM,* explains the installation order of OFSFCCM on different machines hosting OFSAAI Layer(s).
- Appendix B, *ETL Source Creation,* explains steps for creation of ETL.

Where to Find More Information

The OFSFCCM installation is done in three stages. The three installation guides are as follows:

- *Installation Guide Stage: 1:* This Installation Guide provides instructions for installing Oracle Financial Services Behavior Detection Framework (OFSBDF) Scenarios, and Data Ingestion and Detection Algorithms to support Behavior Detection.
- (Stage 2) *Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Release* 7.3: This installation and configuration guide provides instructions for installing and configuring OFSAAI.

For more information about OFSFCCM, refer to the following documents:

- *Configuration Guide*: Provides instruction to configure OFSFCCM solution.
- *Administration Guide*: Provides instruction to perform administrative activities for the OFSFCCM solution.
- *Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Release 7.3*: This Installation and Configuration Guide provides instructions for installing and configuring OFSAAI.
- *Oracle Financial Services Analytical Applications Infrastructure User Manual Release 7.3*: This manual provides instructions for System Administration components of Infrastructure and assists the administrator in configuring the system, managing users, and performing administrative tasks effectively.

To find more information about Oracle Financial Services application and our complete product line, visit our website at www.oracle.com/financial services.

Conventions Used in this Guide

Table 1 lists the conventions used in this guide.

Table 1. Conventions Used in this Guide

Convention	Meaning
Italics	• Names of books, chapters, and sections as references • Emphasis
Bold	• Object of an action (menu names, field names, options, button names) in a step-by-step procedure • Commands typed at a prompt • User input
`Monospace`	• Directories and subdirectories • File names and extensions • Process names • Code sample, including keywords and variables within text and as separate paragraphs, and user-defined program elements within text
<Variable>	Substitute input value

CHAPTER 1 Preparing to Install

This chapter provides information about system hardware and software requirements and pre-installation activities. This chapter includes the following topics:

- Deployment Architecture
- Environment Details
- Installation Checklist
- Populating the GRC_InstallConfig.xml File

Deployment Architecture

Figure 1 shows the flow of data through the components of the Oracle Financial Services Financial Crime and Compliance Management solution.

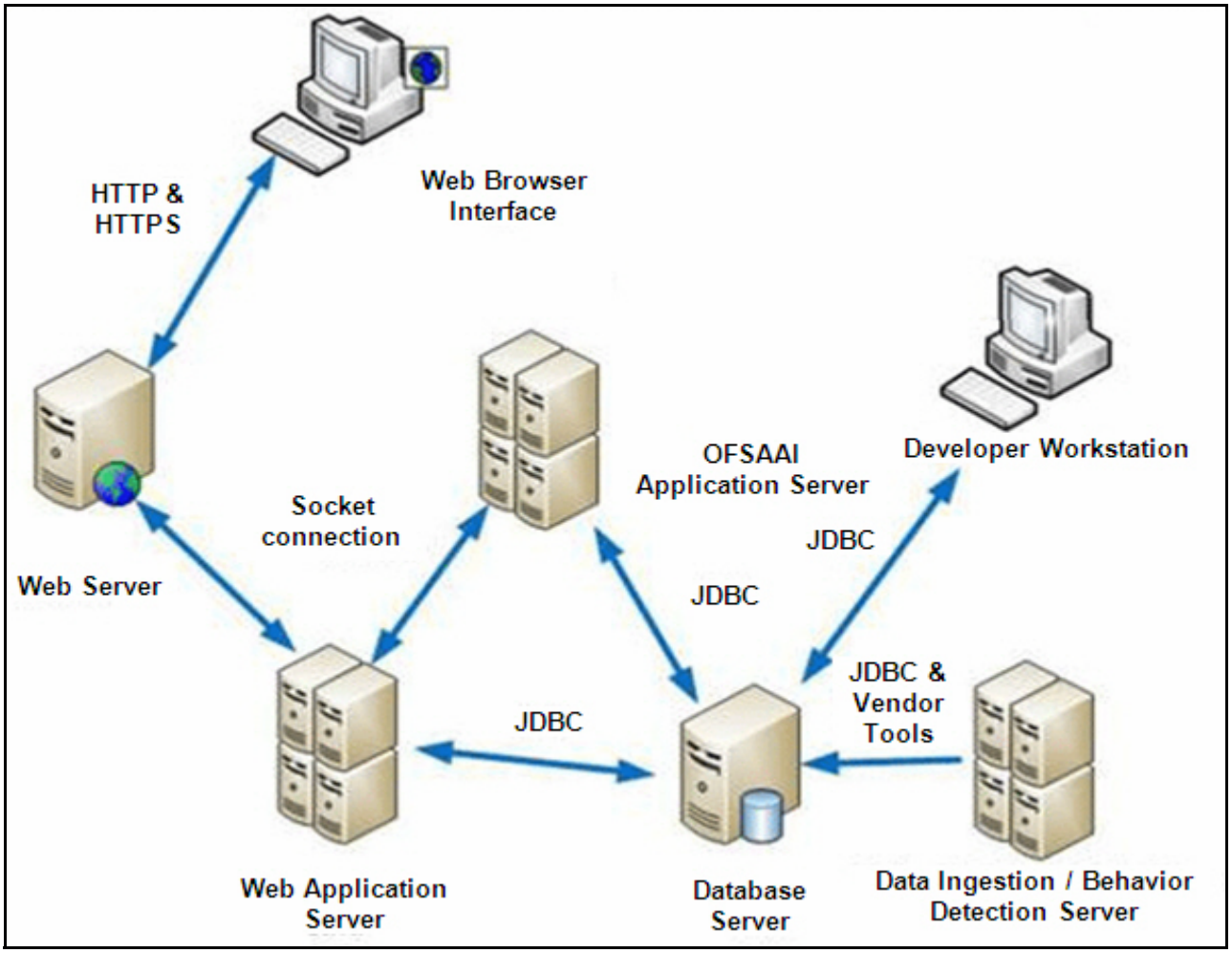

Figure 1. Deployment Architecture

Environment Details

The OFSFCCM solution will be installed using the hardware and software environments as described in following table:

Table 2. Environment Details

Back- End Environment	Hardware	Software
OEL 5.5 or RHEL 5.3 /5.5 or Sun Solaris 10 -64 Bit or AIX 6.1	64-bit x 86 architecture	• Oracle 11g R2 (11.2.0.2.0) - 64 bit • Java 1.6.0_[latest update] - 64 bit • Websphere 7.0.0.[latest update] -64 bit or Weblogic 10.3.[latest update] - 64 bit • OFSBDF 6.2.1 • OFSAAI 7.3 • OBIEE 11.1.1.6.7
Front-End Client Access		**Software**
Windows XP Service Pack 3 / Windows 7		• Java Plug-in 1.6.0_[latest update] • Microsoft Internet Explorer 8.0 / 9.0 • Microsoft Office 2007 • Adobe Reader 8.0 or later

Installation Checklist

Table 3 lists the Installation Checklist to be completed for installing the OFSFCCM solution. Follow the checklist in the sequence mentioned below and perform the listed activities.

Table 3. Installation Checklist

Step No.	Task	Done
General		
1	Check the OFSFCCM 6.2.1 Release Notes and Read Me document for any additional steps to be performed on OFSBDF or OFSAAI. **Note**: For more details, contact Oracle support.	☐
2	Ensure that the required hardware and software are installed and configured. For more information on environment details refer *Environment Details*, on page 3.	☐
OFSBDF 6.2.1		
3	Ensure that the OFSBDF 6.2.1 is installed and configured. Obtain the unix user ID and password used for OFSBDF 6.2.1 installation **Note:** Make sure that `$FIC_HOME` should not be the same as `<OFSBDF_Installed Directory>`. For more information, refer to the *Installation Guide Stage: 1.*	☐
4	Note down the following OFSBDF schemas with a valid User ID and Password and Role Names: ● Business schema (`business_schema_owner`) ● Market schema (`market_schema_owner`) ● Alert Management Schema (`mantas_schema_owner`) ● Web Schema (`web_user`) ● KDD Schema (`kdd_schema_owner`) ● KDD MNR Schema (`tools_user`) ● DB UTIL Schema (`db_util_user`) ● Algorithm Schema (`server_user`) ● Ingest Schema (`Ingest schema Owner`) ● FSDF Schema (`fsdf_schema_owner`) ● KYC Schema (`kyc_schema_owner`) ● Case Management Schema (`case_schema_owner`) **Note**: Refer to `<OFSBDF Installed Directory>/database/db_tools/mantas_cfg/db_variables.cfg` file for schema names written against the variables provided in brackets of respective schema. ● Algorithm Role (`kdd_algorithm_role`) ● Analyst Role (`kdd_analyst_role`) ● Data Loader Role (`data_loader_role`)	☐

Table 3. Installation Checklist (Continued)

5	Take a back up of the following atomic schemas: ● Alert Management Schema ● Case Management Schema For more details, refer to the *Installation Guide Stage: 1.* **Note**: The backup must be kept until the successful installation of the solution.	☐
OFSAAI 7.3		
6	Ensure that the OFSAAI 7.3 is installed and configured. For more details, refer to the *Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Release 7.3.* **Note**: Make sure that `$FIC_HOME` should not be the same as `<OFSBDF_Installed Directory>`. Contact Oracle Support for installing any additional patches on top of OFSAAI, if required. Before installing OFSFCCM 6.2.1, make sure to install the 7.3.3 patch on top of Oracle Financial Services Analytical Applications Infrastructure 7.3 (OFSAAI), in the following order: **OFSAAI** **Bug IDs** 7.3.3.0.0 OFSAAI 7.3.3.0.0 Interim Release	☐
7	Ensure that the ftpshare path of the OFSAAI Application Layer (APP), Data Base Layer (DB), and Web Application Layer (WEB) layers are configured and have recursive read/write/execute permission for the user installing OFSFCCM. For more details, refer to the *Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Release 7.3.* **Note**: If having multiple installation of FCCM products then keep different `ftpshare` path for each installation.	☐

Table 3. Installation Checklist (Continued)

8	Ensure to configure OFSAAI WEB/APP/DB server as part of OFSAAI Installation.
	
	For more information, refer to *Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Release 7.3.*
	
	While configuring OFSAAI, do not perform the following configuration since FCCM 6.2.1 installer will perform it during installation:
	
	Chapter 4 Post Installation Configuration
	
	● Section 4.1 Configure Resource Reference
	  ■ Sub Section 4.1.1 Configure Resource Reference in Infrastructure Web Application **->**4.1.1.1 Configure web.xml
	● Section 4.5 Additional Configurations
	  ■ Sub Section 4.5.7 Configure Information Domain schema privileges
	
	While configuring OFSAAI, do perform additional configurations since FCCM 6.2.1 requires it
	
	Chapter 4 Post Installation Configuration
	
	● Section 4.5 Additional Configurations
	  ■ Sub Section 4.5.1 Configure FTP//SFTP
	● Section 4.5.4 SFTP Configuration for Excel//Document Upload
	  ■ Sub Section 4.5.18 Configure HTPs Certificate information
		☐

9	Ensure that OFSAAI application server is up and running before installing the OFSFCCM Application Layer.	☐
10	Note down the OFSAAI configuration schema User ID and Password. For more details, refer to the *Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Release 7.3.*	☐
11	Take the back up of the following: ● `OFSAAI Configuration Schema (“Config” schema)` ● `OFSAAI Installed directory ($FIC_HOME)` For more details, refer to the *Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Release 7.3.* **Note:** The backup must be kept until the successful installation of the solution.	☐
OFSFCCM Pre Installation		
12	Prior to installation, ensure that sufficient free temp space (minimum 1 GB free) is available in /tmp directory of unix server hosting OFSAAI.	☐

Table 3. Installation Checklist (Continued)

13	Ensure that the Oracle database instance is up and running.	☐
14	Ensure that the database instance parameter processes is set to a minimum value of 1000. For more information, refer to the *Installation Guide Stage: 1.*	☐
OFSFCCM Installation		
15	Once you have downloaded the Installer from e-delivery or support.oracle.com, refer to the following instructions to unzip the downloaded contents: 1. Copy the downloaded Installer zip file contents to your server in Binary mode. 2. Provide execute permissions to Installer zip file. For example, `chmod 751 <Installer zip file>` 3. To unzip Installer zip file using this utility, run the following command: For example, `unzip -a <Installer zip file>`	
16	Navigate to `<Unzipped Installer Directory>/OFSFCCM_v6.2.1` folder and copy `Setup.bin, Setup.sh, validateXMLinputs.jar,log4j.xml, GRCInstall_Config.xml,` and `Data_Model` folder containing DataModel files to the machine that hosts OFSAAI and provide 740 permissions. The Data model folder contains the following folders: ● `FSDF_DataModel` ● `KYC DataModel` These folders contain the rescpective XMLs. All other files must be copied in binary mode. `Setup.sh` and `GRC_InstallConfig.xml` must be copied in text mode.	☐
17	Create a copy of `GRC_InstallConfig.xml` as `GRC_InstallConfig.xml.bak` in the same directory and add values as in `GRC_InstallConfig.xml`. system specific details.	☐
18	Populate `GRC_InstallConfig.xml`. For more information, refer to section *Populating the GRC_InstallConfig.xml File,* on page 8.	☐
19	Install OFSFCCM solution. For more information, refer to section *Installing OFSFCCM Solution in Silent Mode,* on page 33.	☐
20	Verify Installation logs for any error. For more information, refer section *Verification of Installation Logs,* on page 34.	☐
OFSFCCM Post Installation		
21	Perform post-installation steps. For more information, refer to *Chapter 3, Post Installation,* on page 37.	☐
22	Create users to access OFSFCCM solution and other administrative activities. For more information, refer to *Administration Guide.*	☐
23	Ensure to access OFSFCCM URL with server's Fully Qualified Domain Name (FQDN) while opening OFSFCCM UI.	☐

Populating the GRC_InstallConfig.xml File

This section explains the steps to populate the `GRC_InstallConfig.xml` file. Open the `GRC_InstallConfig.xml` under the OFSFCCM installer kit directory and enter the required input parameters as per the instructions.

This file contains the following four sections:

- Layer - GENERAL
- Layer - APPLICATION
- Layer - DATABASE
- Layer - WEB

`The GRC_InstallConfig.xml` contains placeholders, in the format `##<PLACEHOLDER Name>##`, wherever user input is required. Replace these placeholders with the corresponding values as mentioned against each one of these placeholders.

Note:

1. In single-tier installation, all layers sections are mandatory.
2. In multi-tier installation, while performing individual tier installation, GENERAL layer section information is mandatory for all layers.

Layer - GENERAL

The Layer GENERAL (<Layer name="GENERAL">) contains the following placeholders to provide parameter values specific to the users' system:

Table 4. Placeholders in Layer - GENERAL

Variable name	PLACEHOLDERS	DESCRIPTION
VariableGroup name="OFSAA_INFRASTRUCTURE_CUSTOMER_CODE"		
CUSTID	##CUST_ID##	This variable is used to store the Customer ID. Replace this placeholder with Customer Code used during OFSAAI Installation. **For example:** <VariableGroup name="OFSAA_INFRASTRUCTURE_CUSTOMER_CODE"> <Variable name="CUSTID">OFSAAICUSTID</Variable> </VariableGroup>
VariableGroup name="PRE_INSTALLATION"		
PRE_INSTALL	##PRE_INSTALL##	This variable is used to identify whether installer will perform the following pre-installation activities: ● Infodom and Segment Creation for all atomic schemas ● Data Model Upload for KYC and FSDF atomic schema ● ETL Application Source creation for KYC atomic schema Replace this placeholder with either of the following values: - Allowable values are 0 and 1 ● **1** - If the user wants one or more of the above pre-installation steps to be performed by the installer ● **0** - If the user has performed all the above steps through OFSAAI front-end or the installer (or in case running the installation for second time) **For example:** <VariableGroup name="PRE_INSTALLATION"> <Variable name="PRE_INSTALL">1</Variable> </VariableGroup> **Note:** Oracle recommends that the installer to perform all these steps. In case, OFSFCCM installation has been performed second time after successful un-installation, then this parameter will be kept as 0 since it is a one-time activity. For more information, refer to *Chapter 4, Uninstalling OFSFCCM.*

Table 4. Placeholders in Layer - GENERAL (Continued)

VariableGroup name="INFODOM_1"		
INFODOM_NAME	##INFODOM_1##	This variable is used to specify the Alert Management Information Domain (Infodom) name. Replace this placeholder with the Alert Management Infodom name in either of the following cases: ● If already created from OFSAAI front end Or ● To be created by the Installer Make sure to follow these conventions while creating a new infodom. Consider the following: ● Information Domain name specified must be at least 6 characters long ● Information Domain name must not contain any special characters or extra spaces ● Information Domain name must be less than or equal to 20 characters **For example:** <Variable name="INFODOM_NAME">AMINFO</Variable>
SEGMENT_CODE	##SEGMENT_1##	This variable is used to specify the Alert Management Segment Code. Replace this placeholder with Alert Management Segment Code in either of the following cases: ● If already created from OFSAAI front end Or ● To be created by the Installer Make sure to follow these conventions. Consider the following while giving a new Segment Code: ● The segment code must be unique ● There must be no special characters and extra spaces in the code entered ● The maximum length of Segment Code must be less than or equal to of 10 characters **For example:** <Variable name=″SEGMENT_CODE">AMSEG</Variable>

Table 4. Placeholders in Layer - GENERAL (Continued)

VariableGroup name="INFODOM_2"		
INFODOM_NAME	##INFODOM_2##	This variable is used to specify the Case Management Information Domain (Infodom) name. Replace this placeholder with Case Management Infodom name in either of the following cases: ● If already created from OFSAAI front end Or ● To be created by Installer Make sure to follow these conventions. Consider the following while giving a new Information Domain Name: ● The Information Domain name specified is of minimum 6 characters long ● The Information Domain name does not contain any special characters or extra spaces. ● The maximum length of Information Domain must be less than or equal to 20 characters **For example:** <Variable name="INFODOM_NAME">CMINFO</Variable>
SEGMENT_CODE	##SEGMENT_2##	This variable is used to specify the Case Management Segment Code. Replace this placeholder with the Case Management Segment Code in either of the following cases: ● If already created from OFSAAI front end Or ● To be created by the Installer Make sure to follow these conventions. Consider the following while giving a new Segment Code: ● The segment code is unique ● There are no special characters and extra spaces in the code entered ● The Segment Code must be less than or equal to 10 characters **For example:** <Variable name=”SEGMENT_CODE">CMSEG</Variable>

Table 4. Placeholders in Layer - GENERAL (Continued)

VariableGroup name="INFODOM_3"		
INFODOM_NAME	##INFODOM_3##	This variable is used to specify the KYC Information Domain (Infodom) name. Replace this placeholder with KYC Infodom name in either of the following cases: ● If already created from OFSAAI front end Or ● To be created by the Installer Make sure to follow these conventions. Consider the following while giving a new Information Domain Name: ● The Information Domain name specified is of minimum 6 characters long ● The Information Domain name does not contain any special characters or extra spaces ● The maximum length of Information Domain name must be less than or equal to 20 characters **For example:** <Variable name="INFODOM_NAME">KYCINFO</Variable>
SEGMENT_CODE	##SEGMENT_3##	This variable is used to specify the KYC Segment Code. Replace this placeholder with KYC Segment Code in either of the following cases: ● If already created from OFSAAI front end Or ● To be created by the Installer Make sure to follow these conventions. Consider the following while giving a new Segment Code: ● Enter a unique segment code ● There are no special characters and extra spaces in the code entered ● The maximum length of Segment Code must be less than or equal to 10 characters **For example:** <Variable name=”SEGMENT_CODE">KYCSEG</Variable>

Table 4. Placeholders in Layer - GENERAL (Continued)

VariableGroup name="INFODOM_4"		
INFODOM_NAME	##INFODOM_4##	This variable is used to specify the FSDF Information Domain (Infodom) name. Replace this placeholder with FSDF Infodom name in either of the following cases: ● If already created from OFSAAI front end Or ● To be created by the Installer Make sure to follow these convention while giving a new Information Domain Name: ● The Information Domain name specified is of minimum 6 characters long ● The Information Domain name does not contain any special characters or extra spaces ● The maximum length of Information Domain name must be less than or equal to 20 characters **For example:** <Variable name="INFODOM_NAME">FSDFINFO</Variable>
SEGMENT_CODE	##SEGMENT_4##	This variable is used to specify the FSDF Segment Code. Replace this placeholder with FSDF Segment Code in either of the following cases: ● Iif already created from OFSAAI front end Or ● To be created by the Installer Make sure to follow these conventions while giving a new Segment Code: ● The segment code must be unique ● There are no special characters and extra spaces in the code entered. ● The maximum length of Segment Code must be less than or equal to 10 characters **For example:** <Variable name="SEGMENT_CODE">FSDFSEG</Variable>

Table 4. Placeholders in Layer - GENERAL (Continued)

VariableGroup name="LOCAL_FTPSHARE_PATH"		
FTPSHARE_PATH	##FTPSHARE_PATH##	This variable is used to identify the common share area path. Replace this placeholder with the same path as configured during OFSAAI Installation. **For example:** <VariableGroup name="LOCAL_FTPSHARE_PATH"> <Variable name="FTPSHARE_PATH">/home/ftpshare</Variable> </VariableGroup> **Note:** If having multiple installation of FCCM products on same server, then keep different ftpshare path for this installation.

Layer - APPLICATION

The Layer APPLICATION (`<Layer name="APPLICATION">`) consist of the following placeholders, which must be replaced for installation of Application Layer as one of its component.

Table 5. Placeholders in Layer - APPLICATION

Variable name	PLACEHOLDERS	DESCRIPTION
`Layer name="APPLICATION"`	##APP_LAYER##	This variable is used to identify FCCM Application Layer component to be installed on this machine, as per the OFSAAI Installation option (or Multi-tier) followed while installing OFSAAI platform. Allowable values for this placeholder are 0 and 1. Replace this placeholder with ● **1** – if Application Layer component is to be installed ● **0** – if Application Layer component is not to be installed ● In case OFSAAI was installed as single tier mode, replace the place holder with 1 ● In case OFSAAI was installed as multi –tier mode, this value needs to be set according to OFSAAI application layer installed on this machine ■ Replace the placeholder with 1 for the machine hosting OFSAAI application layer ■ Replace the placeholder with 0 for the machine not hosting OFSAAI application layer **Note:** For installing FCCM, the application layer must be installed first, followed by Database and Web layer installation. **For example:** `<Layer name="APPLICATION" flag="1">`
`VariableGroup name="ALERT_MANAGEMENT_DB_DETAILS"`		

`ATOMIC_SCHEMA_USER_NAME`	##ALERT_MANAGEMENT_USER##	This variable is used to identify the first Atomic Schema. For FCCM, the first Atomic schema is Alert Management Schema.
		
		Replace the placeholder with Alert Management Schema Name.
		
		For example:
		`<VariableGroup name="ALERT_MANAGEMENT_DB_DETAILS">`
		`<Variable name="ATOMIC_SCHEMA_USER_NAME">AM</Variable>`
		`</VariableGroup>`
		
		Refer to the *Installation Checklist*, point # 4 for the schema name.

Table 5. Placeholders in Layer - APPLICATION (Continued)

VariableGroup name="CASE_MANAGEMENT_DB_DETAILS"		
ATOMIC_SCHEMA_USER_NAME	##CASE_MANAGEMENT_USER##	This variable is used to identify the second Atomic Schema. For FCCM, the second Atomic schema is Case Management Schema. Replace the placeholder with Case Management Schema Name. **For example:** <VariableGroup name="CASE_MANAGEMENT_DB_DETAILS"> <Variable name="ATOMIC_SCHEMA_USER_NAME">CM</Variable> </VariableGroup> Refer to the *Installation Checklist*, point # 4 for the schema name.
VariableGroup name="KYC_DB_DETAILS"		
ATOMIC_SCHEMA_USER_NAME	##KYC_USER##	This variable is used to identify the third Atomic Schema. For FCCM, the third Atomic schema is KYC Schema. Replace the placeholder with KYC Schema Name. **For example:** <VariableGroup name="KYC_DB_DETAILS"> <Variable name="ATOMIC_SCHEMA_USER_NAME">KYC</Variable> </VariableGroup> Refer to the *Installation Checklist*, point # 4 for the schema name.
VariableGroup name="FSDF_DB_DETAILS"		
ATOMIC_SCHEMA_USER_NAME	##FSDF_USER##	This variable is used to identify the fourt Atomic Schema. For FCCM, the fourth Atomic schema is FSDF Schema. Replace the placeholder with FSDF Schema Name. **For example:** <VariableGroup name="FSDF_DB_DETAILS"> <Variable name="ATOMIC_SCHEMA_USER_NAME">FSDF</Variable> </VariableGroup> Refer to the *Installation Checklist*, point # 4 for the schema name.

Table 5. Placeholders in Layer - APPLICATION (Continued)

VariableGroup name="DATABASE_SCHEMA_DETAILS"		
BUSINESS_SCHEMA_USER	##BUSINESS_USER##	This variable is used to identify the Business Schema name. Replace the placeholder with Business Schema Name. **For example:** <Variable name="BUSINESS_SCHEMA_USER">BUSINESS</Variable> Refer to the *Installation Checklist*, point # 4 for the schema name.
VariableGroup name="LOG_DETAILS"		
APP_LAYER_LOG_PATH	##APP_LOG_PATH##	This variable is used to identify Application Layer log path to store logs for all front-end and back-end components that will be created by OFSAAI. For example, Information Domain. Replace this placeholder with an absolute path. **For example:** <Variable name="APP_LAYER_LOG_PATH">/home/ftpshare/APP_logs</Variable>
DB_LAYER_LOG_PATH	##DB_LOG_PATH##	This variable is used to identify the Database Layer log path to store logs for all front-end and back-end components that will be created by OFSAAI. **For example:** <Variable name="DB_LAYER_LOG_PATH">/home/ftpshare/DB_logs</Variable>
TaskGroup name="PRE_INSTALLATION_CONFIGURATION_SUB_SOL_1"		
ActionGroup name="CREATE_INFODOM"	##INFODOM_FLAG_1##	This variable is used to identify the Alert Management Information Domain to be created by the installer. Allowable values for this placeholder are 0 and 1. Replace this placeholder with **1** – If Infodom for Alert Management is to be created **0** – If Infodom for Alert Management is already created **For example:** <ActionGroup name="CREATE_INFODOM" flag="1">

Table 5. Placeholders in Layer - APPLICATION (Continued)

INFODOM_DESCRIPTION	##INFODOM_DESC_1##	This variable is used to identify the Alert Management Information Domain description. This value is required only if ##INFODOM_FLAG_1## and ##PRE_INSTALL## has been replaced by 1. Replace this placeholder with a description for Alert Management Information Domain by following these conventions: ● Ensure that the description field is not empty ● Ensure that the description field should not exceed 100 characters **For example:** <Variable name="INFODOM_DESCRIPTION">Alert Management Infodom</Variable>
DATABASE_NAME	##DB_NAME_1##	This variable is used to identify the Database Name for Alert Management Information Domain. This value is required only if ##INFODOM_FLAG_1## and ##PRE_INSTALL## has been replaced by 1. Replace this placeholder with a name for the Alert Management Database by following these conventions: ● There are no special characters and extra spaces in the name ● The length of database Name must not exceed 20 characters **For example:** <Variable name="DATABASE_NAME">AMDB</Variable>
TaskGroup name="PRE_INSTALLATION_CONFIGURATION_SUB_SOL_2"		
ActionGroup name="CREATE_INFODOM"	##INFODOM_FLAG_2##	This variable is used to identify the Case Management Information Domain to be created by the installer. Allowable values for this placeholder are 0 and 1. Replace this placeholder with **1** – if Infodom for Case Management is to be created **0** – if Infodom for Case Management is already created **For example:** <ActionGroup name="CREATE_INFODOM" flag="1">

Table 5. Placeholders in Layer - APPLICATION (Continued)

INFODOM_DESCRIPTION	##INFODOM_DESC_2##	This variable is used to identify the Case Management Information Domain description. This value is required only if ##INFODOM_FLAG_2## and ##PRE_INSTALL## has been replaced by 1. Replace this placeholder with a description for Case Management Information Domain by following these conventions: ● Ensure the description field is not empty ● Ensure the description field should not exceed 100 characters **For example:** <Variable name="INFODOM_DESCRIPTION">Case Management Infodom</Variable>
DATABASE_NAME	##DB_NAME_2##	This variable is used to identify the Database Name for Case Management Information Domain. This value is required only if ##INFODOM_FLAG_2## and ##PRE_INSTALL## has been replaced by 1. Replace this placeholder with a name for the Case Management Database by following these conventions: ● There are no special characters and extra spaces in the name ● The length of database name must not exceed 20 characters **For example:** <Variable name="DATABASE_NAME">CMDB</Variable>
TaskGroup name="PRE_INSTALLATION_CONFIGURATION_SUB_SOL_3"		
ActionGroup name="CREATE_INFODOM"	##INFODOM_FLAG_3##	This variable is used to identify the KYC Information Domain to be created by the installer. Allowable values for this placeholder are 0 and 1. Replace this placeholder with ● **1** – if Infodom for KYC is to be created ● **0** – if Infodom for KYC is already created **For example:** <ActionGroup name="CREATE_INFODOM" flag="1">
INFODOM_DESCRIPTION	##INFODOM_DESC_3##	This variable is used to identify the KYC Information Domain description. This value is required only if ##INFODOM_FLAG_3## and ##PRE_INSTALL## has been replaced by 1. Replace this placeholder with a description for KYC Information Domain by following these conventions: ● Ensure that the description field is not empty ● Ensure that the description field should not exceed 100 characters **For example:** <Variable name="INFODOM_DESCRIPTION">KYC Infodom</Variable>

Table 5. Placeholders in Layer - APPLICATION (Continued)

DATABASE_NAME	##DB_NAME_3##	This variable is used to identify the Database Name for KYC Information Domain. This value is required only if ##INFODOM_FLAG_3## and ##PRE_INSTALL## has been replaced by 1. Replace this placeholder with a name for the KYC Database by following these conventions: ● There are no special characters and extra spaces in the name ● The length of database name must not exceed 20 characters **For example:** <Variable name="DATABASE_NAME">KYCDB.oracle.com</Variable> **Note:** A TNS entry must be made in tnsnames.ora with tnsname same as the value provided for KYC Database Name. If sqlnet.ora is configured with a vaue in NAMES.DEFAULT_DOMAIN then make sure to use same domain while defining Database Name. It is required for KYC Batch processing. Or OFSAAI recommends for the Oracle database, the #DB_NAME_3## must be same as the TNS (Transparent Network Substrate) Database Name. In case, the TNS Database Name is not yet used as Database_Name for any other Atomic Schema.
ActionGroup name="DATA_MODEL_UPLOAD"	##MODEL_UPLOAD_FLAG_1##	This variable is used to identify whether Data Model Upload for KYC is to be done through the Installer. Allowable values for this placeholder are 0 and 1. Replace this placeholder with ● **1** – if Data Model Upload for KYC is to be done through Installer ● **0** – if Data Model Upload for KYC is already completed **For example:** <ActionGroup name="DATA_MODEL_UPLOAD" flag="1">
DATAMODEL_TYPE	##DM_TYPE_1##	This variable is used to identify the type of Data Model Upload for KYC that is to be done through the Installer. This value is required only if ##MODEL_UPLOAD_FLAG_1## and ##PRE_INSTALL## has been replaced by 1. Replace this placeholder with the type of DataModel upload to be performed. Allowable values are 0. 0=SLICED Model Upload **For example:** <Variable name="DATAMODEL_TYPE">0</Variable>

Table 5. Placeholders in Layer - APPLICATION (Continued)

LOGICAL_UPLOAD	##LOGICAL_UPLOAD_1##	This variable is used to identify if Data Model Upload for KYC is to be Logical. This value is required only if ##MODEL_UPLOAD_FLAG_1## and ##PRE_INSTALL## has been replaced by 1. Replace this placeholder with the type of DataModel upload to be performed. Allowable values are 0. **For example:** <Variable name="LOGICAL_UPLOAD">0</Variable>
DATAMODEL_FILE_PATH	##DM_FILE_PATH_1##	This variable is used to identify the type of Data Model file path used for KYC data Model Upload. This value is required only if ##MODEL_UPLOAD_FLAG_1## and ##PRE_INSTALL## has been replaced by 1. Replace this placeholder with the absolute path of DataModel file. **For example:** <Variable name="DATAMODEL_FILE_PATH">/home/FCCMkit/DataModel/KYC_DataModel/Data Model KYC Release 2.0 Oracle.xml</Variable>
ActionGroup name="ETL_CREATION"	##ETL_FLAG_1##	This variable is used to identify whether ETL Application and Sources creation for KYC is to be done through the installer. S Allowable values for this placeholder are 0 and 1. Replace this placeholder with ● **1** – if ETL Application and Sources creation for KYC is to be done through the Installer ● **0** – if ETL Application and Sources for KYC is already completed **For example:** <ActionGroup name="ETL_CREATION" flag="1"> **Note:** For Installations on RAC databases, ETL Application and Source creation is not supported by installer. Therefore keep this flag as 0. Once installation completes, perform ETL Application and Source creation from OFSAAI UI for KYC.
ETL_CODE	##ETL_CODE_1##	This variable is used to identify the Atomic Schema for which ETL Application and Sources creation is to be done through the installer.This value is required only if ##ETL_FLAG_1## and ##PRE_INSTALL## has been replaced by 1. Replace this placeholder with 3 for KYC. **For example:** <Variable name="ETL_CODE">3</Variable>

Table 5. Placeholders in Layer - APPLICATION (Continued)

IS_RAC	##IS_RAC_1##	This variable is used to identify whether the database is RAC. This value is required only if ##ETL_FLAG_1## and ##PRE_INSTALL## has been replaced by 1. Allowable Values are 0 and 1. Replace this placeholder with: **1** – if Database on which OFSAAI is installed is RAC **0** - if Database on which OFSAAI is installed is not RAC **For example:** <Variable name="IS_RAC">0</Variable>
TaskGroup name="PRE_INSTALLATION_CONFIGURATION_SUB_SOL_4"		
ActionGroup name="CREATE_INFODOM"	##INFODOM_FLAG_4##	This variable is used to identify the FSDF Information Domain to be created by the installer. Allowable values for this placeholder are 0 and 1. Replace this placeholder with ● **1** - f Infodom for FSDF is to be created ● **0** - if Infodom for FSDF is already created **For example:** <ActionGroup name="CREATE_INFODOM" flag="1">
INFODOM_DESCRIPTION	##INFODOM_DESC_4##	This variable is used to identify the FSDF Information Domain description. This value is required only if ##INFODOM_FLAG_4## and ##PRE_INSTALL## has been replaced by 1. Replace this placeholder with a description for FSDF Information Domain by following these conventions: ● Ensure the description field is not empty ● Ensure the description field should not exceed 100 characters **For example:** <Variable name="INFODOM_DESCRIPTION">FSDF Infodom</Variable>
DATABASE_NAME	##DB_NAME_4##	This variable is used to identify the Database Name for FSDF Information Domain. This value is required only if ##INFODOM_FLAG_4## and ##PRE_INSTALL## has been replaced by 1. Replace this placeholder with a name for the FSDF Database by following below conventions: ● There are no special characters and extra spaces in the name ● The length of database Name should not exceed 20 characters **For example:** <Variable name="DATABASE_NAME">FSDF DB</Variable>

Table 5. Placeholders in Layer - APPLICATION (Continued)

ActionGroup name="DATA_MODEL_UPLOAD"	##MODEL_UPLOAD_FLAG_2##	This variable is used to identify whether Data Model Upload for FSDF is to be done through the Installer Allowable values for this placeholder are 0 and 1. Replace this placeholder with **1** - if Data Model Upload for FSDF is to be done through the Installer **0** - if Data Model Upload for FSDF is already completed **For example:** <ActionGroup name="DATA_MODEL_UPLOAD" flag="1">
DATAMODEL_TYPE	##DM_TYPE_2##	This variable is used to identify the type of Data Model Upload for FSDF that is to be done through the Installer. This value is required only if ##MODEL_UPLOAD_FLAG_2## and ##PRE_INSTALL## has been replaced by 1. Replace this placeholder with the type of DataModel upload to be performed. Allowable values are 0. **0**=SLICED Model Upload **For example:** <Variable name="DATAMODEL_TYPE">0</Variable>
LOGICAL_UPLOAD	##LOGICAL_UPLOAD_2##	This variable is used to identify if the Data Model Upload for FSDF is to be Logical. This value is required only if ##MODEL_UPLOAD_FLAG_2## and ##PRE_INSTALL## has been replaced by 1. Replace this placeholder with the type of DataModel upload to be performed. Allowable values are 0. **For example:** <Variable name="LOGICAL_UPLOAD">0</Variable>
DATAMODEL_FILE_PATH	##DM_FILE_PATH_2##	This variable is used to identify the type of Data Model file path used for FSDF data model upload. This value is required only if ##MODEL_UPLOAD_FLAG_2## and ##PRE_INSTALL## has been replaced by 1. Replace this placeholder with the absolute path of DataModel file. **For example:** <Variable name="DATAMODEL_FILE_PATH">/home/FCCMkit/Data Model/FSDF_DataModel/FCCM_Staging_Release62.xml</Variable>

Layer - DATABASE

The Layer DATABASE (<Layer name="DATABASE">) contains the following placeholders, which must be configured for installation of Database Layer as one of its component.

Table 6. Placeholders in Layer - DATABASE

Variable name	PLACEHOLDERS	DESCRIPTION
`Layer name="DATABASE"`	`##DB_LAYER##`	This variable is used to Identify FCCM Database Layer component to be installed on this machine, as per the OFSAAI Installation option (or multi- tier) followed while installing the OFSAAI platform. Allowable values for this placeholder are 0 and 1. Replace this placeholder with ● **1** – if DATABASE Layer component is to be installed. ● **0** – if DATABASE Layer component is not to be installed Replace the place holder with 1 in case OFSAAI was installed as single – tier mode In case OFSAAI was installed as multi –tier mode, this value needs to be set according to the OFSAAI DATABASE layer installed on this machine: ● Replace the placeholder with 1 for the machine hosting OFSAAI DATABASE layer ● Replace the placeholder with 0 for the machine NOT hosting OFSAAI DATABASE layer **For example:** `<Layer name="DATABASE" flag="1">`
`VariableGroup name="DATABASE_DETAILS"`		

Table 6. Placeholders in Layer - DATABASE (Continued)

DATABASE_URL	##DB_URL##	Replace this placeholder with OFSAAI Configuration Schema Database URL for the connection purpose. **For example:** <Variable name="DATABASE_URL">jdbc:oracle:thin:@DBSERVER.ORACLE.COM:1521:ORCL</Variable> Refer to the value of DEFAULT_CONNECTION_URL parameter in the file- DynamicServices.xml under $FIC_APP_HOME/conf for value of this parameter. If you are using RAC database then provide the URL in below format: jdbc:oracle:thin:@(DESCRIPTION=(ADDRESS_LIST=(ADDRESS=(PROTOCOL=TCP)(HOST=<DBSERVER1.ORACLE.COM>)(port=1521))(ADDRESS=(PROTOCOL=TCP)(HOST=1<DBSERVER2.ORACLE.COM>)(PORT=1521))(LOAD_BALANCE=no)(FAILOVER=yes))(CONNECT_DATA=(SERVICE_NAME=<dbname>))) **Note:** In RAC DB, ETL application and sources are not created by the installer, perform Appendix B to create the same.
FICMASTER_DRIVER	##DB_DRIVER##	Replace this placeholder with the OFSAAI Configuration Schema Database Driver for the connection purpose. **For example:** <Variable name="FICMASTER_DRIVER">oracle.jdbc.driver.OracleDriver</Variable> **Note:** Refer to the value of DEFAULT_DRIVER parameter in the file- DynamicServices.xml under $FIC_APP_HOME/conf for value of this parameter.
FICMASTER_USER	##CONFIGURATION_USER##	Replace this placeholder with the value of OFSAAI Configuration Schema user. **For example:** <Variable name="FICMASTER_USER">REVELEUS</Variable> Refer to the *Installation Checklist*, point #10 for the schema name.
VariableGroup name="DATABASE_SCHEMA_DETAILS″		

Table 6. Placeholders in Layer - DATABASE (Continued)

BUSINESS_SCHEMA_USER	##BUSINESS_USER##	This variable is used to identify the Business Schema name. Replace the placeholder with BUSINESS Schema Name. **For example:** <Variable name="BUSINESS_SCHEMA_USER">BUSINESS</Variable> Refer to the *Installation Checklist*, point # 4 for the schema name.
MARKET_SCHEMA_USER	##MARKET_USER##	This variable is used to identify the Market Schema name. Replace the placeholder with Market Schema Name. **For example:** <Variable name="MARKET_SCHEMA_USER">MARKET</Variable> Refer to the *Installation Checklist*, point # 4 for the schema name.
ALERT_MANAGEMENT_SCHEMA_USER	##ALERT_MANAGEMENT_USER##	This variable is used to identify the Alert Management Schema name. Replace the placeholder with the Alert Management Schema name. **For example:** <Variable name="ALERT_MANAGEMENT_SCHEMA_USER">AM</Variable> Refer to the *Installation Checklist*, point # 4 for the schema name.
KDD_WEB_SCHEMA_USER	##KDD_WEB_USER##	This variable is used to identify the WEB Schema name. Replace the placeholder with WEB Schema Name. **For example:** <Variable name="KDD_WEB_SCHEMA_USER">KDD_WEB</Variable> Refer to the *Installation Checklist*, point # 4 for the schema name.
KDD_SCHEMA_USER	##KDD_USER##	This variable is used to identify the KDD Schema name. Replace the placeholder with KDD Schema Name. **For example:** <Variable name="KDD_SCHEMA_USER">KDD</Variable> Refer to the *Installation Checklist*, point # 4 for the schema name.

Table 6. Placeholders in Layer - DATABASE (Continued)

KDD_MNR_SCHEMA_USER	##KDD_MNR_USER##	This variable is used to identify the KDD MNR Schema name. Replace the placeholder with MNR Schema Name. **For example:** <Variable name="KDD_MNR_SCHEMA_USER">KDD_MNR</Variable> Refer to the *Installation Checklist*, point # 4 for the schema name.
DB_UTIL_USER	##DB_UTIL_USER##	This variable is used to identify the DB UTIL Schema name. Replace the placeholder with DB UTIL Schema Name. **For example:** <Variable name="DB_UTIL_USER">DB_UTIL_USER</Variable> Refer to the *Installation Checklist*, point # 4 for the schema name.
KDD_ALG_SCHEMA_USER	##KDD_ALG_USER##	This variable is used to identify the Algorithm Schema name. Replace the placeholder with Algorithm Schema Name. **For example:** <Variable name="KDD_ALG_SCHEMA_USER">KDD_ALG</Variable> Refer to the *Installation Checklist*, point # 4 for the schema name.
INGEST_SCHEMA_USER	## INGEST_SCHEMA _USER##	This variable is used to identify the Ingest Schema name. Replace the placeholder with Ingest Schema Name. **For example:** <Variable name="INGEST_SCHEMA_USER">INGEST_USER</Variable> Refer to the *Installation Checklist*, point # 4 for the schema name.
FSDF_SCHEMA_USER	## FSDF_SCHEMA_USE R##	This variable is used to identify the FSDF Schema name. Replace the placeholder with FSDF Schema Name. **For example:** <Variable name="FSDF_SCHEMA_USER">FSDF_USER</Variable> Refer to the *Installation Checklist*, point # 4 for the schema name.
KDD_ALGORITHM	##KDD_ALG_ROLE##	This variable is used to identify the Algorithm Role name. Replace the placeholder with Algorithm Role Name. **For example:** <Variable name="KDD_ALGORITHM">KDD_ALGORITHM</Variable> Refer to the *Installation Checklist*, point # 4 for the role name.

Table 6. Placeholders in Layer - DATABASE (Continued)

KDD_ANALYST	##KDD_ANALYST_ROLE##	This variable is used to identify the Analyst Role name. Replace the placeholder with Analyst Role Name. **For example:** <Variable name="KDD_ANALYST">KDD_ANALYST</Variable> Refer to the *Installation Checklist*, point # 4 for the role name.
DATA_LOADER_ROLE	##DATA_LOADER_ROLE##	This variable is used to identify the Data Loader Role name. Replace the placeholder with Data Loader Role Name. **For example:** <Variable name="DATA_LOADER_ROLE"> DATA_LOADER </Variable> Refer to the *Installation Checklist*, point # 4 for the role name.
VariableGroup name="OFSBDP_DETAILS"		
SINGLE_TIER_FLAG	## SINGLE_TIER_FLAG##	This variable is used to identify that OFSBDF is on same machine as in which the OFSAAI DB layer is installed. ● **0**: if installed on same machine ● **1**: if installed on different machine **For example:** <Variable name="SINGLE_TIER_FLAG">0</Variable>
OFSBDP_USER_ID	##OFSBDP_USER_ID##	This variable takes the direct login unix user input of the machine where OFSBDF is installed. **For Example:** <Variable name="OFSBDP_USER_ID">ofsaa</Variable>
OFSBDP_SERVER_HOST	## OFSBDP_SERVER_HOST##	This variable takes the input of the hostname or IP address of the machine where OFSBDF is installed. **For example:** <Variable name="OFSBDP_SERVER_HOST">unix.oracle.com</Variable
OFSBDP_HOME	## OFSBDP_HOME##	This attribute holds the path where the execute.sh file is present in the OFSBDF installed System. **For example:** <Variable name="OFSBDP_HOME"><**OFSBDF Installed Directory**>/bdf/scripts</Variable>
VariableGroup name="TABLESPACE_1"		

Table 6. Placeholders in Layer - DATABASE (Continued)

DATA_TABLE_SPACE	##DATA_TABLESPACE_1##	Replace this placeholder with KYC Data Tablespace Name. **For example:** <Variable name="DATA_TABLE_SPACE">KYC_DATA</Variable> **Note:** It should be the same as the value of KYC Data Tablespace name created during the OFSBDF installation. For more details, refer to *APPENDIX D, OFSBDF Data Model Variables* of *Installation Guide: Stage 1.*
INDEX_TABLE_SPACE	##INDEX_TABLESPACE_1##	Replace this placeholder with KYC INDEX Tablespace Name. **For example:** <Variable name="INDEX_TABLE_SPACE">KYC_INDEX</Variable> **Note:** It should be the same as the value of KYC Index Tablespace name created during the OFSBDF installation. For more details, refer to *APPENDIX D, OFSBDF Data Model Variables* of *Installation Guide: Stage 1.*
VariableGroup name="ADMIN_TOOLS_CONTEXT_NAME"		
ADMIN_CONTEXT_NAME	##ADMIN_TOOLS_CONTEXT##	Replace this placeholder with a string to be used as context name for Admin Tools, for deployment purpose. **For example:** <Variable name="ADMIN_CONTEXT_NAME">admin_tools</Variable>

Layer - WEB

The Layer WEB (<Layer name="WEB">) contains the following placeholders which must be configured for installation of WEB layer as one of its component:

Table 7. Placeholders in layer – WEB

Variable	PLACEHOLDERS	DESCRIPTION
Layer name="WEB"	##WEB_LAYER##	This variable is used to identify OFSFCCM Web Layer component to be installed on this machine, as per the OFSAAI installation option (or multi-tier) followed while installing OFSAAI platform. Allowable values for this placeholder are 0 and 1. Replace this placeholder with ● **1** – if WEB Layer component is to be installed ● **0** – if WEB Layer component is not to be installed In case OFSAAI was installed as single – tier mode, replace the place holder with 1. In case OFSAAI was installed as multi-tier mode, this value needs to be set according to the OFSAAI Web layer installed on this machine: ● Replace the placeholder with 1 for the machine hosting OFSAAI Web layer ● Replace the placeholder with 0 for the machine not hosting OFSAAI Web layer **Note:** For installing OFSFCCM, APP layer installation happens first and then followed by Database and Web layer. **For example:** <Layer name="WEB" flag="1">
VariableGroup name="DATABASE_DETAILS"		
FICMASTER_USER	##CONFIGURATION_USER##	Replace this placeholder with the value of OFSAAI Configuration Schema user. **For example:** <Variable name="FICMASTER_USER">REVELEUS</Variable> Refer to the *Installation Checklist*, point # 10 for the schema name.
VariableGroup name="DATABASE_SCHEMA_DETAILS"		
BUSINESS_SCHEMA_USER	##BUSINESS_USER##	This variable is used to identify the Business Schema name. Replace the placeholder with BUSINESS Schema Name. **For example:** <Variable name="BUSINESS_SCHEMA_USER">BUSINESS</Variable> Refer to the *Installation Checklist*, point # 4 for the schema name.

Table 7. Placeholders in layer – WEB (Continued)

MARKET_SCHEMA_USER	##MARKET_USER##	This variable is used to identify the Market Schema name. Replace the placeholder with Market Schema Name. **For example:** <Variable name="MARKET_SCHEMA_USER">MARKET</Variable> Refer to the *Installation Checklist*, point # 4 for the schema name.
ALERT_MANAGEMENT_SCHEMA_USER	##ALERT_MANAGEMENT_USER##	This variable is used to identify the Alert Management Schema name. Replace the placeholder with Alert Management Schema Name. **For example:** <Variable name="ALERT_MANAGEMENT_SCHEMA_USER">AM</Variable> Refer to the *Installation Checklist*, point # 4 for the schema name.
KDD_WEB_SCHEMA_USER	##KDD_WEB_USER##	This variable is used to identify the WEB Schema name. Replace the placeholder with WEB Schema Name. **For example:** <Variable name="KDD_WEB_SCHEMA_USER">KDD_WEB</Variable> Refer to the *Installation Checklist*, point # 4 for the schema name.
KDD_SCHEMA_USER	##KDD_USER##	This variable is used to identify the KDD Schema name. Replace the placeholder with KDD Schema Name. **For example:** <Variable name="KDD_SCHEMA_USER">KDD</Variable> Refer to the *Installation Checklist*, point # 4 for the schema name.
KDD_MNR_SCHEMA_USER	##KDD_MNR_USER##	This variable is used to identify the KDD MNR Schema name. Replace the placeholder with MNR Schema Name. **For example:** <Variable name="KDD_MNR_SCHEMA_USER">KDD_MNR</Variable> Refer to the *Installation Checklist*, point # 4 for the schema name.

Table 7. Placeholders in layer – WEB (Continued)

VariableGroup name="OBIEE_REPORTS_INSTALLATION"		
OBIEE_REPORTS	##OBIEE##	This variable is used to identify whether Oracle Business Intelligence Enterprise Edition (OBIEE) needs to be integrated in the setup. Allowable values for this placeholder are 0 and 1. Replace this placeholder with ● **0** – if OBIEE reports related files are not be installed ● **1** – if OBIEE reports related files are to be installed **For example:** <Variable name="OBIEE_REPORTS">1</Variable>

CHAPTER 2 Installation Activities

This chapter covers the following topics:

- Installing OFSFCCM Solution in Silent Mode
- Verification of Installation Logs

Installing OFSFCCM Solution in Silent Mode

OFSFCCM comprises the components that are installed in the OFSAAI Database, Application, and Web layers. If OFSAAI is installed in multi-tier architecture, then the OFSFCCM installer must be invoked on each machine that hosts different tiers. This chapter describes the installation process in which OFSAAI is installed using single-tier option.

For single-tier installation, the installer must be invoked only once on the machine that hosts all the OFSAAI platform tiers.

Note: For multi-tier installation, the installation must be done in the following order:

- Application Layer.
- Database Layer (The Database layer installation must be performed after Application Layer).
- Web Layer (The Web Layer installation must be performed after Database Layer installation).

  Note: For more information, refer to Appendix A, "Installation Order for Multi-Tier Installation of OFSFCCM," for installation order of OFSFCCM solution.

To install OFSFCCM in silent mode, follow these steps:

1. Execute `.profile` to set the environment variables using the following command:

   ```
   $ ksh
   $ .  ./.profile
   ```

2. Navigate to the OFSFCCM installer kit directory.
3. Execute the following command:

   ```
   $ ./Setup.sh SILENT
   ```

   Note: Installation for Solaris Box displays an incorrect message: */<Stage3 Installer Kit>/Setup.bin: !: not found.*

   The file is present. The installation continues and ends successfully. Ignore this message.

4. Enter the following passwords raised by the installer.

   [LOG] Starting up.....

   Enter Config Schema Password:

   Enter BUSINESS Schema Password:

   Enter MARKET Schema Password:

   Enter Alert Management Schema Password:

   Enter KDD-WEB Schema Password:

   Enter KDD Schema Password:

   Enter KDD MNR Schema Password:

   Enter DB UTIL Schema Password:

   Enter KDD ALGORITHM Schema Password:

   Enter INGEST Schema Password:

   Enter FSDF Schema Password:

   Enter OFSBDP User Password:

   Enter Case Management Schema Password:

   Enter KYC Atomic Schema Password:

Note: In case of single-tier installation, the installer will not prompt for the Config Schema Password. Subsequently, the installation process starts. After successful installation, the following message is displayed: *Installation Complete*.

Verification of Installation Logs

Once you complete the installation process, check the installation logs for any errors.

1. `SolutionSetup_InstallLog.log`, which is created in OFSFCCM installed directory (`$FIC_HOME`).
2. `SolutionsLOG.log`, which is created in OFSFCCM installed directory (`$FIC_HOME`).
3. `FCCM62_LOG.log`, which is created at the path from where installation is triggered.

Note: If you observe any warnings/non fatal errors/fatal errors/exceptions/ORA error reported in either of the logs, notify the OFSECM support personnel. Do not proceed with the installation process until all the issues are addressed.

Upon successful installation, proceed to post installation steps as explained in the following chapters.

Ignore the following warning message coming in `SolutionSetup_InstallLog.log` where the placeholders `<ftpshare>` in the message is replaced with the actual ftpshare area path.

Additional Notes: WARNING - Source `<ftpshare>/STAGE/ExcelUpload/INFODOM` does not exist.

Note: For RAC DB, JDBC, url is required in the format:

```
jdbc:oracle:thin:(DESCRIPTION = (ADDRESS = (PROTOCOL = TCP)(HOST = Server.Host Name)(PORT =
1521)) (CONNECT_DATA = (SERVER = DEDICATED) (SERVICE_NAME =.Database Name)))
```

Note: For Installations on RAC databases, ETL Application and Source creation is not supported by installer. Therefore perform ETL Application and Source creation from OFSAAI UI for KYC after installation. Once done, proceed with next chapter. For more details, refer to the *Appendix B*.

CHAPTER 3 Post Installation

This chapter explains the post installation activities and includes the following topics:

- Restart Application servers
- Web Layer Configuration
- OFSAAI Redeployment
- Admin Tools Deployment
- Scenario Wizard Configuration and Deployment
- Restarting Web Application server
- Creating Users to Access OFSFCCM Solution
- Setting OFSFCCM UI as Home Page of OFSAAI for a Particular User

Restart Application servers

After successful installation of OFSFCCM, restart the OFSAAI Application Server and ICC Server.

Note: For more information on starting Application servers (Infrastructure Server) and ICC server, refer to *Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Release 7.3*.

During the restart of OFSAAI Application server, ignore the following message appearing on the console of OFSAAI application server and proceed further.

`java.io.FileNotFoundException: /<ftpshare path>/<AMINFODOM>/erwin/fipxml/<AMINFODOM>_DATABASE.XML` *(No such file or directory)*

`java.io.FileNotFoundException: /<ftpshare path>/<CMINFODOM>/erwin/fipxml/<CMINFODOMDATABASE.XML` *(No such file or directory)*

Note: The placeholders `<AMINFODOM>` and `<CMINFODOM>` in the message are replaced with the Alert Management Infodom values.

Web Layer Configuration

1. Login to the Web Application server console for creating Java Data Base Connectivity (JDBC) resources for AM, CM, KYC, and FSDF schemas by providing AM, CM, KYC, and FSDF infodom names and respective Atomic Schema DB usernames and passwords, respectively.

   For more information, refer to *Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Release 7.3*.

   Note: In Web Logic, while creating Data Source, do not select any driver for (Thin XA). Always choose database driver as *Oracle's* driver (Thin) for service connection; Version.

2. Verify the connection pool settings for AM, CM, KYC, and FSDF Data Sources. It must be 100.

   Note: Web Sphere has its own tunable *Connection pool settings*.

   FCCM recommends to keep Max Connection = 100 but it depends on the number of users (specific to Admin Tools). In case while accessing Admin Tools, if you get no connection pool available, then perform the following settings:

   Maximum connections = 0 (to remove the upper cap of allocated)

   Minimum connections = 0

   Aged timeout = 660

   Follow these steps depending on the type of Web Application server (Websphere/Weblogic) used:

   For Websphere:

   a. Login to the Websphere admin console.

   b. Click on **Resources**, select **JDBC**, and then select **JDBC Providers**.

   c. Click on data sources applicable for OFSFCCM (apply the following setting for AM, CM, KYC, and FSDF data sources).

      i. Click **Data Sources** in additional properties. Click the data source name again. Click **Connection Pool Properties** in additional properties. If the value for maximum connection is less than 100, then make it 100.

   For Weblogic:

   a. Login to the Weblogic admin console.

   b. Click Services, select **JDBC**, and then select **Data Sources**.

   c. Click on data sources applicable for OFSFCCM 6.2.1 (apply the following setting for AM, CM, KYC, and FSDF data sources).

      i. Click the **Connection Pool** tab. If the value for the maximum Capacity is less than 100, then make it 100.

3. Verify the memory settings for the Web Application Server. Set the minimum heap size as 512 MB and the maximum heap size as 3072 MB.

   Note: For more information, refer to the *Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Release 7.3*.

Workaround for AIX 6.1

Perform the following step for Bug 16830426 if using AIX 6.1 box, the Stage 3 Installer adds an additional 'FICMASTER' entry.

Follow these steps:

1. Navigate to $FIC_WEB_HOME/webroot/WEB-INF/web.xml
2. Open web.xml and remove one set of the following tags (if duplicate entries present):

```
<resource-ref>
<res-ref-name>jdbc/FICMASTER</res-ref-name>
<res-type>javax.sql.DataSource</res-type>
<res-auth>Container</res-auth>
</resource-ref>
```

3. Save file.
4. Recreate OFSAAI ear file.

Workaround for WebLogic as Web Application Server

Update the file 'startWebLogic.sh' in '<WebLogic_Instance_Home>/bin/' directory as follows:

Locate the following line in the shell script:

```
echo "starting weblogic with Java version:"
```

Edit the Weblogic startup script which starts up the Oracle Financial Services application server and add the following three parameters above -echo "starting weblogic with Java version:":

```
Add the following lines in the shell script:
JAVA_OPTIONS="${JAVA_OPTIONS}
-Djavax.xml.soap.SOAPConnectionFactory=org.apache.axis.soap.SOAPConnectionFactoryImpl"
JAVA_OPTIONS="${JAVA_OPTIONS}
-Djavax.xml.soap.MessageFactory=org.apache.axis.soap.MessageFactoryImpl"
JAVA_OPTIONS="${JAVA_OPTIONS}
-Djavax.xml.soap.SOAPFactory=org.apache.axis.soap.SOAPFactoryImpl"
```

OFSAAI Redeployment

Deploy the <Context-name>.ear (for example, OFSAAI.ear) available at $FIC_HOME/ficweb directory.

Note: For instructions on deploying the EAR file, refer to the *Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Release 7.3*.

Admin Tools Deployment

To deploy Admin Tools, follow these steps:

1. Go to $FIC_HOME/ficweb/AM installed directory and run the script file ./changePasswords.sh. It will ask for the following passwords:

   Enter password for Web Application User:

Enter password for Data Miner User:

Note: Enter passwords corresponding to the following user names, respectively.

Web Schema (`web_user`)

KDD MNR Schema (`tools_user`)

Refer to the *Installation Checklist*, point # 4 for more details.

2. Go to `$FIC_HOME/ficweb/AM` installed directory and run the script file `./create_at_war.sh`
3. Deploy the `<admin_tool_context-name>.war` (for example, `admin_tools.war`) available at `$FIC_HOME/AM` directory, as an application on your Web Application Server.

   While deploying war file, keep same context name as given against variable `ADMIN_CONTEXT_NAME` in `GRC_InstallConfig.xml File.`

   Note: For instructions on deploying the EAR file, refer to *Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Release 7.3*.

Scenario Wizard Configuration and Deployment

Navigate to `$FIC_HOME/ficweb/SCENARIO_WIZARD` and follow these steps:

1. Execute ./`install.sh`. When prompted for password, enter the `KDD MNR` Schema password.

   Note: Refer to the *Installation Checklist*, point # 4 for more information.
2. Deploy the `<context-name>.war` file (for example `SMLiteWeb.war`) available at `$FIC_HOME/ficweb/SCENARIO_WIZARD` as an application on your Web Application Server. While deploying war file, keep context name as `SMLiteWeb.`

   Note: At a moment of time, only one instance of Scenario Wizard will run on one Application server. While launching the Scenario Wizard if you find any exception pop up saying `java.rmi.bind exception` or `java.rmi.unknownhost exception,` follow these steps:

   a. Stop the SMLiteWeb.war

   b. Navigate to `<deployed area>SMLiteWeb\WEB-INF\classes\conf\mantas_cfg\install.cfg`

   c. In `install.cfg` change the token to some other port which is not occupied.

   d. Define rmiPort. By default keep it 1099

   rmiPort=1099

   e. Restart the server.

Note:

For instructions on deploying the EAR file, refer to the *Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Release 7.3*.

For Front-end access, the following settings must be changed on the client side for the Scenario Wizard to work on Windows XP/Windows 7.

1. Navigate to Java Control Panel.
2. Under the General tab ensure the following two settings:

a. Navigate to Network Settings and change the Network Proxy Settings to Direct Connection.
b. Navigate to Settings under Temporary Internet Files and perform the following steps:
   i. Check the option to Keep temporary files on my computer.
   ii. Click **Delete Files** to clear the Java cache.

Restarting Web Application server

Once all the above steps are completed, restart the Web Application Server.

Creating Users to Access OFSFCCM Solution

Create users to access OFSFCCM application. For more information, refer to sections, *About OFSECM User Authentication* and *About User Setup* in the *Administration Guide.*

Perform Administrative activities for OFSECM

Access the OFSFCCM UI as ECM Administrator and perform all the steps given in the following sections of *Administration Guide.*

- About Configuring Access Control Metadata
- Mapping Users To Access Control Metadata
- About Scenario Manager Login Accounts
- About Changing Passwords for System Accounts
- About Configuring File Type Extensions
- About Configuring File Size
- About Configuring Status To User Role Table

Note: Once Security Attributes mapping is completed for the ECM Administrator user, restart OFSAAI and Web Application servers before accessing the Admin Tools application.

Perform Configurations for OFSECM

Access the OFSFCCM UI as ECM Administrator and perform all the steps given in the following sections of *Configuration Guide.*

- Configuring the Base Time Zone
- Configuring the Default Currency Code
- Configuring E-mail
- Configuring XML Export
- Configuring Organization Relationships for Trade Blotter
- Configuring Search Criteria Population Options for Trade Blotter

- Configuring Case Correlation Owner
- Configuring Default Case Owner
- Configuring Default Alert Owner
- Configuring the Alert/Case Auto Assignment Web Service

Perform Administrative activities for KYC

Access the OFSFCCM UI as a KYC Administrator and perform all the steps given in the *KYCAdministration Guide.*

Note: Appendix C and D should be performed for successful KYC installation.

Setting OFSFCCM UI as Home Page of OFSAAI for a Particular User

To set OFSFCCM UI as home page of OFSAAI, follow these steps:

1. Log in as an ECM Administrator/Supervisor user.
2. Navigate to **Home** page.
3. Select **Enterprise Case Management** as your default page and click **Save**.

CHAPTER 4 Uninstalling OFSFCCM

To uninstall the OFSFCCM in a particular OFSAAI Layer, follow these steps. For multi-tier architecture, OFSFCCM Uninstaller must be run on all servers hosting an OFSAAI Layer.

1. Before uninstalling the OFSFCCM, execute `.profile` to set the environment variables using the following command:

   ```
   $ ksh
   $ .  ./.profile
   ```

2. Navigate to `$FIC_HOME/Uninstall_FCCM62` directory and execute the following command:

   ```
   $ ./Uninstall_App.sh
   ```

3. Input the Configuration Schema Password when prompted.
4. After running Uninstaller on all the layers, follow these steps:
   a. Uninstall the OFSAAI ear file deployed on the Web Application Server.
   b. Navigate to `$FIC_HOME/ficweb` on server hosting WEB Layer and execute the following command to recreate the ear file.

      ```
      $ ./ant.sh
      ```

   c. Deploy the new ear file on Web Server.

   Note: For more information on deploying the EAR file, refer to the *Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Release 7.3*.
5. The OFSFCCM Uninstaller does not perform the following activities:
   a. It does not delete Infodom and Segment created as part of OFSFCCM installation.
   b. It does not revert DataModel Upload done as part of OFSFCCM installation.
   c. It does not delete ETL Applications and Sources created as part of OFSFCCM installation.
6. If you are re-installing OFSFCCM after running the un-installer, keep the same InfoDom and Segment Names for all the atomic schemas. For consecutive installation, replace the following parameters in `GRC_InstallConfig.xml` with 0 before starting installation next time, since they already exist in the database.

Mark the following parameters as 0 in `GRC_InstallConfig.xml` file for next time installation after successful uninstallation:

Table 8. Placeholders in GRC_InstallConfig.xml

Variable	Preferred Value	Description
VariableGroup name="PRE_INSTALLATION"		
PRE_INSTALL	0	This variable is used to identify whether the installer will perform the following pre-Installation activities: 1. Infodom and Segment Creation for all atomic schemas. 2. Data Model Upload for KYC and FSDF atomic schema. 3. ETL Application Source creation for KYC atomic schema. Replace this placeholder with 0. **For example:** <VariableGroup name="PRE_INSTALLATION"> <Variable name="PRE_INSTALL">0</Variable> </VariableGroup> **Note:** In case OFSFCCM is being installed second time after successfully un-installing, then keep this parameter as 0, since it is a onetime activity.
TaskGroup name="PRE_INSTALLATION_CONFIGURATION_SUB_SOL_1"		
ActionGroup name="CREATE_INFODOM"	0	This variable is used to identify the Alert Management Information Domain to be created by the installer. Replace this placeholder with 0. **For example:** <ActionGroup name="CREATE_INFODOM" flag="0"> **Note:** In case OFSFCCM is being installed second time after successfully un-installing, then keep this parameter as 0, since it is a onetime activity.
TaskGroup name="PRE_INSTALLATION_CONFIGURATION_SUB_SOL_2"		
ActionGroup name="CREATE_INFODOM"	0	This variable is used to identify the Case Management Information Domain to be created by the installer. Replace this placeholder with 0. **For example:** <ActionGroup name="CREATE_INFODOM" flag="0"> **Note:** In case OFSFCCM is being installed a second time after successfully un-installing, then keep this parameter as 0, since it is a onetime activity.

Table 8. Placeholders in GRC_InstallConfig.xml (Continued)

TaskGroup name="PRE_INSTALLATION_CONFIGURATION_SUB_SOL_3"		
ActionGroup name="CREATE_INFODOM"	0	This variable is used to identify the KYC Information Domain to be created by the installer. Replace this placeholder with 0. **For example:** <ActionGroup name="CREATE_INFODOM" flag="0"> **Note:** In case OFSFCCM is being installed a second time after successfully un-installing, then keep this parameter as 0, since it is a onetime activity.
ActionGroup name="DATA_MODEL_UPLOAD"	0	This variable is used to identify whether the Data Model Upload for KYC is to be done through the Installer. Replace this placeholder with 0. **For example:** <ActionGroup name="DATA_MODEL_UPLOAD" flag="0"> **Note:** In case OFSFCCM is being installed a second time after successfully un-installing, then replace this placeholder with 0.
ActionGroup name="ETL_CREATION"	0	This variable is used to identify whether the ETL application and sources creation for KYC is to be done through the Installer. Replace this placeholder with 0. **For example:** <ActionGroup name="ETL_CREATION" flag="0"> **Note:** In case OFSFCCM is being installed a second time after successfully un-installing, then replace this placeholder with 0.

Table 8. Placeholders in GRC_InstallConfig.xml (Continued)

TaskGroup name="PRE_INSTALLATION_CONFIGURATION_SUB_SOL_4"		
ActionGroup name="CREATE_INFODOM"	0	This variable is used to identify the FSDF Information Domain to be created by the installer. Replace this placeholder with 0. 0 – if Infodom for FSDF is already created **For example:** <ActionGroup name="CREATE_INFODOM" flag="0"> **Note:** In case OFS FCCM installation is performed second time after successful un-installation, then keep this parameter as 0 since it is a onetime activity.
ActionGroup name="DATA_MODEL_UPLOAD"	0	This variable is used to identify whether Data Model Upload for FSDF is to be done through the Installer. Replace this placeholder with 0 ● 1 – If Data Model Upload for FSDF is to be done through the installer ● 0 – If Data Model Upload for FSDF is already completed **For example:** <ActionGroup name="DATA_MODEL_UPLOAD" flag="0"> **Note:** In case OFS FCCM installation is performed second time after successful un-installation, then replace this placeholder with 0.

CHAPTER 5 Deploying Analytic Reports and Threshold Analyzer

This chapter explains how to deploy Analytics on Oracle Business Intelligence Enterprise Edition (OBIEE) and integrate Analytic Reports and Threshold Analyzer in the OFSECM UI.

This chapter includes the following topics:

- Installing OBIEE Server
- Installing OBIEE Windows Administration Client
- Disabling the Cache Feature in OBIEE Server
- Change Default Repository Password
- Configuring OBIEE Connection Pool
- Deploying OFSFCCM Report Analytics
- Post Installation Steps
- Accessing Reports through OFSFCCM Application

Installing OBIEE Server

To install the Oracle Business Intelligence Enterprise Edition (OBIEE) server, refer to *Oracle® Fusion Middleware Installation Guide for Oracle Business Intelligence11g Release 1 (11.1.1.6.7).* After installation, get the Enterprise Manager URL, Username, Password, and OBIEE installed directory from the system administrator.

Installing OBIEE Windows Administration Client

To install the OBIEE repository administration client for Windows machine, refer to *Oracle® Fusion Middleware Installation Guide for Oracle Business Intelligence11g Release 1 (11.1.1.6.7).*

The OBIEE repository administration client can be downloaded from running OBIEE setup from the following URL:

```
<protocol>://<OBIEE Server Name>:<OBIEE Analytics port>/analytics
```

From LHS menu, click **Get Started** and select **Download BI Desktop Tools**.

Disabling the Cache Feature in OBIEE Server

Login to the Enterprise Manager and perform the following steps:

1. Click **Business Intelligence** folder from the left hand side menu and select coreapplicaiton. For more information, refer Figure 1.
2. Click **Capacity Management** and then select the **Performance** tab.
3. Click **Lock and Edit Configuration** tab.
4. To disable the Cache, uncheck the Cache Enabled Option.
5. Click **Apply** and **Activate Changes**.
6. Click **Restart** to apply recent changes.

Change Default Repository Password

Copy `ECM_6.2.rpd` from `$FIC_HOME/OBIEE/Repository` to the Windows machine where the OBIEE Windows administration client is installed. Change the default password for the repository by following these steps:

1. Open the Repository using the OBIEE Windows administration client from Windows machine. From the File menu, select **Open** and click **Offline**. Browse to the Repository on Windows machine. The Oracle BI Administration Tool - `ECM_6.2.rpd` windows is displayed.
2. Enter default Repository password: *Mantas61*

To change the default password, follow these steps:

1. From File menu, choose **Change Password**.
2. Enter the new password and click **OK**.

Configuring OBIEE Connection Pool

To configure the Connection Pool of the repository, follow these steps:

1. Open the same Repository (as in the previous step) on the Windows machine. The Oracle BI Administration Tool - `ECM_6.2.rpd` windows is displayed.
2. Expand the **D4010S10** folder in the Physical section.
3. Double-click **Connection Pool** to open the Connection Pool Properties window.
4. Enter the following in the Data Source Name text box of the Connection Pool Properties window after modifying `<Database Server Host Name>` and `<Database Name>`

   ```
   Data Source Name = (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=<Database Server Host-Name>)(PORT=1521))(CONNECT_DATA=(SERVER=DEDICATED) (SERVICE_NAME=<Database Name>)))
   ```
5. Enter the Alert Management schema user in the User name text box.
6. Enter the Alert Management schema user password in the Password text box.
7. Click **OK**.
8. Expand the folder and test connection for any one table name by Right Click > view data.
9. Perform similar changes in the Connection Pools for all remaining folders in the Physical Layer by providing the following schema details for all Connection Pools:
   a. `D4010S10` > Alert Management Schema
   b. `D5011S10` > Report Schema (refer report_user in `<OFSBDP Installed Directory>/database/db_tools/mantas_cfg/db_variables.cfg` file. For more details, refer to the *Installation Guide - Stage 1*).
   c. `KYC1.1DEV-179` > Alert Management Schema
   d. `MNTS583` > Alert Management Schema
   e. `UIC_73` > CaseMng connection pool ->Case Management Schema
   f. `UIC_73` > Security connection pool->Alert Management Schema
10. Select **Save** option from the File menu. The following message is displayed:*Do you want to check global consistency?*,
11. Click **Yes**. The following message is displayed: *Consistency check didn't find any errors, warning or best practices violations.*
12. Click **OK**.

Deploying OFSFCCM Report Analytics

To deploy Analytic Reports, follow these steps:

1. Stop Oracle Process Manager and Notification Server (OPMN) services by executing the following command from `<OBIEE Installed Directory>/instances/instance1/bin`

   ```
   ./opmnctl stopall
   ```

2. Change the value in `Nqsconfig.ini` file located at `<FMW_HOME>/instances/instance1/config/OracleBIServerComponent/coreapplication_obis1/` directory

   From

   ```
   EVALUATE_SUPPORT_LEVEL = 0;
   ```

   To

   ```
   EVALUATE_SUPPORT_LEVEL =2;
   ```

3. Copy `ANALYTICS_REPORT` folder from `$FIC_HOME/OBIEE` and place under `<OBIEE Installed Directory>/instances/instance1/bifoundation/OracleBIPresentationServicesComponent/coreapplication_obips1/catalog.`

4. Login into Enterprise Manager, click the **Business Intelligence** folder at left hand side and select coreapplication, then click on **Deployment** tab.

5. Click the **Repository** tab.

6. Click on **Lock and Edit Configuration** tab.

7. Click **Close** on the Confirmation pop-up window.

8. In the Upload BI Server Repository Section, browse the repository file from the Windows machine.

9. Enter the new repository password in the **Repository Password** and **Confirm Password** text boxes.

10. In BI Presentation Catalog section, provide the Catalog Location as `<OBIEE Installed Directory>/instances/instance1/bifoundation/OracleBIPresentationServicesComponent/coreapplication_obips1/catalog/ANALYTICS_REPORT`

11. Click **Apply**.

12. Click **Activate Changes** and close the activate changes pop-up window.

13. Click **Close** on the Confirmation pop-up window.

14. Modify `<OBIEE Installer Directory> /instances/instance1/config/OracleBIPresentationServicesComponent/coreapplication_obips1/instanceconfig.xml` as below

    From

    ```
    <Security>
    <!--This Configuration setting is managed by Oracle Enterprise Manager Fusion Middleware Control-->
    <ClientSessionExpireMinutes>210</ClientSessionExpireMinutes>
    </Security>
    ```

    To

    ```
    <Security>
    ```

```
<!--This Configuration setting is managed by Oracle Enterprise Manager Fusion Middle-
ware Control-->
<ClientSessionExpireMinutes>210</ClientSessionExpireMinutes>
<InIFrameRenderingMode>allow</InIFrameRenderingMode>
</Security>
```

15. Restart OBIEE server.
16. Modify `Instanceconfig.xml` available at`<FMW_HOME>/instances/instance1/config/OracleBIPresentationServicesComponent/coreapplication_obips1/instanceconfig.xml` location

    Add the tag under the `Security` Section in `Instance Config.xml`

    ```
    <InIFrameRenderingMode>allow</InIFrameRenderingMode>
    ```

    So that it looks like below after adding above tag:

    ```
    <Security>
    <!--This Configuration setting is managed by Oracle Enterprise Manager Fusion Middle-
    ware Control-->
    <ClientSessionExpireMinutes>210</ClientSessionExpireMinutes>
    <InIFrameRenderingMode>allow</InIFrameRenderingMode>
    </Security>
    ```

17. Start the Oracle Process Manager and Notification Server (OPMN) services by executing the following command from `<OBIEE Installed Directory>/instances/instance1/bin`

    ```
    ./opmnctl startall
    ```

Post Installation Steps

After installing the OBIEE server, follow these steps:

1. Log in as OFSECM Admin User with valid username and password. The OFSECM Home page is displayed.
2. Click **FCCM** and then click the Administration Menu and select the **Manage Parameters** and click **Manage Common Parameters**.
3. Choose Parameter Category as **UI** and Parameter Name as **OBIEE**.
4. Set Attribute 2 Value = `<PROTOCOL>://<OBIEE_SERVER_NAME>:<PORT>`

   Note: `<PROTOCOL>` is the web page access PROTOCOL (http or https) and `<OBIEE_SERVER_NAME>` is the FQN (fully qualified name)/host name of the of the server, where OBIEE is installed.

   `<PORT>` is the PORT number used in OBIEE installation. It may change based on the OBIEE version. Enter the correct PORT number if it is not 9704.

   Placeholder variables are mentioned between angle brackets. Update the placeholders with actual value.
5. Verify Attribute 4 Value. It must be the OFSECM application URL. If the same OFSECM application is deployed on different machines, then modify the OFSECM Application URL in Attribute 4 Value appropriately.

Accessing Reports through OFSFCCM Application

For more information on Accessing Reports, refer to the *Alert Management User Guide*.

Note: For Bug 13713131: An error displays when a user clicks on the pie chart or tries to access the Threshold Analyzer reports.

This is an issue with Solaris OS. Apply Solaris patch #13055819 to solve this issue.

APPENDIX A Installation Order for Multi-Tier Installation of OFSFCCM

If OFSAAI is installed in a multi-tier architecture, then installation order of OFSFCCM on different machines hosting OFSAAI Layer(s) will depend on the OFSAAI Installation architecture, as mentioned below:

OFSAAI APP, DB Layer on Machine A and OFSAAI WEB Layer on Machine B

1. Execute installer on Machine A with ##APP_LAYER## and ##DB_LAYER## flags as 1, ##WEB_LAYER## flag as 0.
2. Execute installer on Machine B with ##APP_LAYER## and ##DB_LAYER## flags as 0, ##WEB_LAYER## flag as 1.

OFSAAI APP Layer on Machine A and OFSAAI DB, WEB Layer on Machine B

1. Execute installer on Machine A with ##APP_LAYER## flag as 1, ##DB_LAYER## and ##WEB_LAYER## flags as 0.
2. Execute installer on Machine B with ##APP_LAYER## flag as 0, ##DB_LAYER## and ##WEB_LAYER## flags as 1.

OFSAAI APP, WEB Layer on Machine A and OFSAAI DB Layer on Machine B

1. Execute installer on Machine A with ##APP_LAYER## flag as 1, ##DB_LAYER## and ##WEB_LAYER## flags as 0.
2. Execute installer on Machine B with ##DB_LAYER## flag as 1, ##APP_LAYER## and ##WEB_LAYER## flags as 0.
3. Execute installer on Machine A with ##WEB_LAYER## flag as 1, ##APP_LAYER## and ##DB_LAYER## flags as 0.

OFSAAI APP Layer on Machine A, OFSAAI DB Layer on Machine B and OFSAAI WEB Layer on Machine C

1. Execute installer on Machine A with ##APP_LAYER## flag as 1, ##DB_LAYER## and ##WEB_LAYER## flags as 0.
2. Execute installer on Machine B with ##DB_LAYER## flag as 1, ##APP_LAYER## and ##WEB_LAYER## flags as 0.
3. Execute installer on Machine C with ##WEB_LAYER## flag as 1, ##APP_LAYER## and ##DB_LAYER## flags as 0.

APPENDIX B ETL Source Creation

Create the following applications:

- File2Table_Load
- FicMaster
- KYCApplication
- BusinessSchema
- OracleSchema

NOTE: The Application Name and Data Source names are case sensitive and should be created as specified. Ensure that folders are created with the Data Source Name in the ftpshare/STAGE area in the application and database layer.

Create the following data sources:

- **FileTable** - A Flat File Source pointing to the source database to hold the F2T Definitions. The date format should be set as mm-dd-yyyy.
- **ConfigSource** - An RDBMS Source pointing to the Configuration database to hold the configuration information. The date format should be set as mm-dd-yyyy.
- **KYCsource** - An RDBMS Source pointing to the KYC Atomic Schema to hold the T2T Definitions. The date format should be set as mm-dd-yyyy.
- **BusinessSchema** - An RDBMS Source pointing to the Business database to hold the Business schema information. The date format should be set as mm-dd-yyyy.
- **OracleSchema** - An RDBMS Source pointing to the Alert Management database to hold the Alert Management schema information. The date format should be set as mm-dd-yyyy.

Map the Source to the respective application:

- Data Source FileTable to Application File2Table_Load.
- Data Source ConfigSource to Application FicMaster.
- Data Source KYCsource to Application KYC.
- Data Source BusinessSchema to Application BusinessSchema.
- Data Source OracleSchema to Application OracleSchema.
- Generate the Source Model for the Sources - FicMaster, KYCsource, Business, and Mantas Schema.

NOTE: For more details refer to the *Oracle Financial Services Analytical Applications Infrastructure User Manual Release 7.3* to perform the steps mentioned above.

APPENDIX C Configuration for the KYC File Rename.sh

Below is the configuration which must be done for `KYC_File_Rename.sh` file found in ficdb/bin path. The script will work fine for both Multitier and Single tier configuration.

Steps for Creating the Access Permission for Copying the File from One Machine to Another

The below steps from 1 to 3 for providing the access must be done only for the Multi tier environment. These steps are not required for a single tier configuration, follow steps from 4 to 5 only for single tier.

1. Execute the command `ssh-keygen -t rsa` in the machine from where the files are to be copied (machine where the ficdb layer of OFSAAI is installed).

   ```
   $ ssh-keygen -t rsa
   ```

   Generating public/private rsa key pair.

   Enter file in which to save the key (`/home/gsh/.ssh/id_rsa`): ---- just press Enter

   Enter passphrase (empty for no passphrase): ---- just press Enter

   Enter same passphrase again: ---- just press Enter

   Your identification has been saved in `/home/gsh/.ssh/id_rsa`.

   Your public key has been saved in `/home/gsh/.ssh/`id_rsa.pub.

   The key fingerprint is:

   ```
   23:b1:27:c8:23:a3:73:ea:a8:3f:7a:71:85:e1:59:59 gsh@ofsaa
   ```

2. Copy this `id_rsa.pub` file which is created in the path `/home/gsh/.ssh/` into the Destination machine in the path `/home/gsh/.ssh/`id_rsa.pub. This file has to be moved manually from one machine to another machine.

3. Navigate to the path `/home/gsh/.ssh/` in the machine where the files are to be copied and execute the below commands:

   ```
   $ cat id_rsa.pub >>/home/gsh/.ssh/authorized_keys
   $ chmod 700 /home/gsh/.ssh/authorized_keys
   ```

   Note: The paths are according to our setup, when the ssh-keygen -t rsa is executed the paths of your setup will be displayed below the command.

Calling the Shell Script for Copying the Files from One Path to Another

4. Open the `KYC_File_Rename.sh` which is present in the path `<OFSAAI Installed Area>/ficdb/bin` of DB layer and configure the paths and details as mentioned in the following screenshots. After the changes are done move the file to the /ficdb/bin/ area. Provide executable permissions to the file.
5. Execute the task through the batch execution screen of the OFSAAI application and check if the files are moved to the destination path.

#Modify the below mentioned SHARE_PATH as per your setup, provide the path upto /ftpshare/STAGE/KYCsource
SHARE_PATH=/home/gsh/ftpshare/STAGE/KYCsource
Modify the path according to your setup
export SHARE_PATH
echo $SHARE_PATH
#Creating a New folder under the /ftpshare/STAGE/KYCsource/MISDATE folder for storing the history of the files
cd $SHARE_PATH/$4
mkdir HistoryFiles
chmod -R 775 HistoryFiles
#Creating a New folder under the /ftpshare/STAGE/KYCsource/MISDATE folder for storing the renamed of the files
cd $SHARE_PATH/$4
mkdir RenamedFiles
chmod -R 775 RenamedFiles
pwd
#Moving the actual Customer files into the History Folder and movig the renamed files into the folder
cp GenCustDetails_ED_$4.dat $SHARE_PATH/$4/HistoryFiles
cp GenCustDetails_ED_$4.dat $SHARE_PATH/$4/RenamedFiles/CustomerSupplementalAttribute_DLY_2.dat
#Moving the actual Customer files into the History Folder and movig the renamed files into the folder
Modify the File names according to the need of the AML solution
cp GenAcctDetails_ED_$4.dat $SHARE_PATH/$4/HistoryFiles
cp GenAcctDetails_ED_$4.dat $SHARE_PATH/$4/RenamedFiles/AccountSupplementalAttribute_DLY_2.dat
#Moving the actual Customer files into the History Folder and movig the renamed files into the folder
cp GenWLSFeedback_ED_$4.dat $SHARE_PATH/$4/HistoryFiles
cp GenWLSFeedback_ED_$4.dat $SHARE_PATH/$4/RenamedFiles/WatchListFeedback_DLY_2.dat
cd $SHARE_PATH/$4/RenamedFiles
#Moving the files into the machine where the AML is installed.
scp *.* gsh@10.184.220.60:/home/gsh/fccm/ingestion_manager/inbox
Path where the files need to be copied in the machine where the AML is installed
IP Address or Hostname of the machine where the AML is installed
User login name for the machine where the AML is installed

Figure 2. Multi-tier Configuration

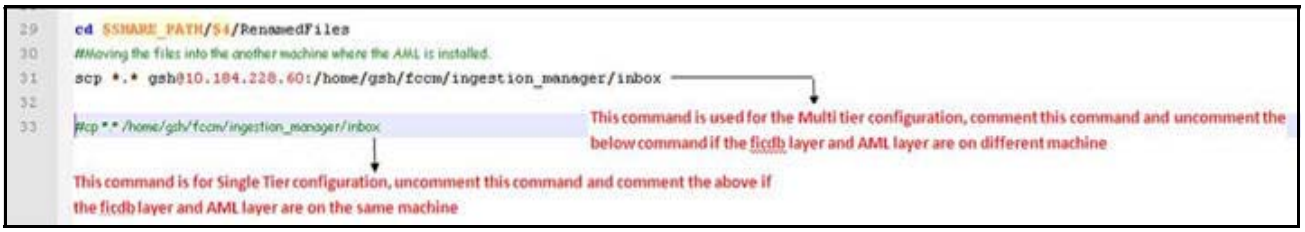
cd $SHARE_PATH/$4/RenamedFiles
#Moving the files into the another machine where the AML is installed.
scp *.* gsh@10.184.220.60:/home/gsh/fccm/ingestion_manager/inbox
#cp *.* /home/gsh/fccm/ingestion_manager/inbox
This command is used for the Multi tier configuration, comment this command and uncomment the below command if the ficdb layer and AML layer are on different machine
This command is for Single Tier configuration, uncomment this command and comment the above if the ficdb layer and AML layer are on the same machine

Figure 3. Single-tier Configuration

APPENDIX D Watchlist_FuzzyMatch

Execute the below mentioned create synonym queries by logging in as the INGEST_USER.

Replace the ##KYC_USER## place holder with name of the KYC ATOMIC schema.

```
CREATE SYNONYM DIM_CUSTOMER_TYPE for ##KYC_USER##.DIM_CUSTOMER_TYPE;
 CREATE SYNONYM DIM_JURISDICTION for ##KYC_USER##.DIM_JURISDICTION;
 CREATE SYNONYM FCT_TP_WLS_REQUESTS_PRCNG for ##KYC_USER##.FCT_TP_WLS_REQUESTS_PRCNG;
 CREATE SYNONYM FCT_WLS_RESULT_STG for ##KYC_USER##.FCT_WLS_RESULT_STG;
```

Calling the Shell Script for Copying the Files from One Path to Another

6. Open the KYC_File_Rename.sh which is present in the path <OFSAAI Installed Area>/ficdb/bin of DB layer and configure the paths and details as mentioned in the following screenshots. After the changes are done move the file to the /ficdb/bin/ area. Provide executable permissions to the file.
7. Execute the task through the batch execution screen of the OFSAAI application and check if the files are moved to the destination path.

#Modify the below mentioned SHARE_PATH as per your setup, provide the path upto /ftpshare/STAGE/KYCsource
SHARE_PATH=/home/gsh/ftpshare/STAGE/KYCsource
Modify the path according to your setup
export SHARE_PATH
echo $SHARE_PATH
#Creating a New folder under the /ftpshare/STAGE/KYCsource/MISDATE folder for storing the history of the files
cd $SHARE_PATH/$4
mkdir HistoryFiles
chmod -R 775 HistoryFiles
#Creating a New folder under the /ftpshare/STAGE/KYCsource/MISDATE folder for storing the renamed of the files
cd $SHARE_PATH/$4
mkdir RenamedFiles
chmod -R 775 RenamedFiles
pwd
#Moving the actual Customer files into the History Folder and movig the renamed files into the folder
cp GenCustDetails_ED_$4.dat $SHARE_PATH/$4/HistoryFiles
cp GenCustDetails_ED_$4.dat $SHARE_PATH/$4/RenamedFiles/CustomerSupplementalAttribute_DLY_2.dat
#Moving the actual Customer files into the History Folder and movig the renamed files into the folder
cp GenAcctDetails_ED_$4.dat $SHARE_PATH/$4/HistoryFiles
cp GenAcctDetails_ED_$4.dat $SHARE_PATH/$4/RenamedFiles/AccountSupplementalAttribute_DLY_2.dat
Modify the File names according to the need of the AML solution
#Moving the actual Customer files into the History Folder and movig the renamed files into the folder
cp GenWLSFeedback_ED_$4.dat $SHARE_PATH/$4/HistoryFiles
cp GenWLSFeedback_ED_$4.dat $SHARE_PATH/$4/RenamedFiles/WatchListFeedback_DLY_2.dat
cd $SHARE_PATH/$4/RenamedFiles
#Moving the files into the machine where the AML is installed.
scp *.* gsh@10.184.220.60:/home/gsh/fccm/ingestion_manager/inbox
Path where the files need to be copied in the machine where the AML is installed
IP Address or Hostname of the machine where the AML is installed
User login name for the machine where the AML is installed

Figure 4. Multi-tier Configuration

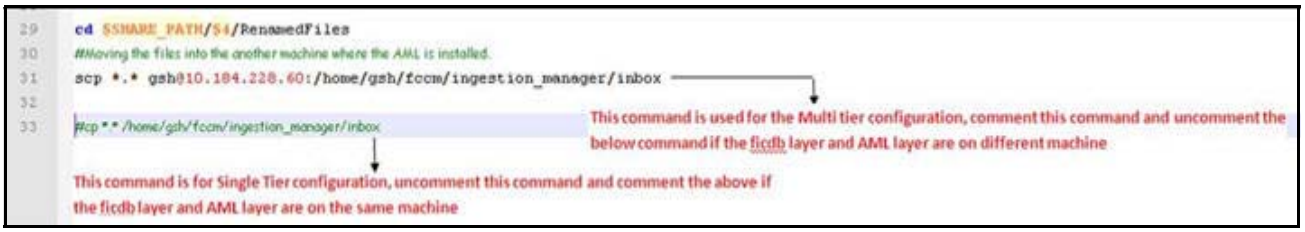
cd $SHARE_PATH/$4/RenamedFiles
#Moving the files into the another machine where the AML is installed.
scp *.* gsh@10.184.220.60:/home/gsh/fccm/ingestion_manager/inbox
#cp *.* /home/gsh/fccm/ingestion_manager/inbox
This command is used for the Multi tier configuration, comment this command and uncomment the below command if the ficdb layer and AML layer are on different machine
This command is for Single Tier configuration, uncomment this command and comment the above if the ficdb layer and AML layer are on the same machine

Figure 5. Single-tier Configuration